AUG 0 9 2002

FORM PTO-1449

ION DISCLOSURE STATEMENT AG

ATTY. DOCKET NO. 1503.0200006 APPLICATION OF THE CONTROL OF THE CO

APPLICANT

Agrafiotis et al.

AUG 1 4 2002

FILING DATE March 12, 2001 GROUP 2123 FCH LEWIER 1600/2900

						ма	rch 12, 2001		2123		LER 1600/29 0/
		_			U.S. P	ATEN	T DOCUMENTS				1000/2000
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
A/S	AA1	4,77	3,099	09/19	988	Boks	er		382	14	
710	AB1	4,81	1,217	03/19	989	Tokiz	ane et al.		364	300	
	AC1	4,85	9,736	08/19	989	Rink			525	54.1	1
	AD1	4,90	8,773	03/19	990	Pant	oliano et al.		364	496	<u> </u>
	AE1	4,93	5,875	06/19	990	Shah	et al.		364	497	
	AF1	4,93	9,666	07/19	990	Hard			364	496	
	AG1	5,01	0,175	04/19	991	Rutte	er et al.		530	334	2002 2002
	AH1	5,02	5,388	06/19	991	Cran	ner, III et al.		364	496	R S L
1	Al1	5,15	5,801	10/19	992	Linco			395	22	2002 Enter 210
· · · · · · · · · · · · · · · · · · ·					FOREIGN	N PAT	ENT DOCUMENTS				0
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
AB	AJ1	EP 0	355 266 B1		02/1990		EPO		B01J	19/00	Ye: No
	AK1	EP 0	355 628 B1		02/1990		EPO		G21F	9/00	No
	AL1	EP 0	770 876 A1		05/1997		EPO		G01N	33/68	Yes
$\overline{}$	AM1	EP 0	818 744 A2		01/1998		EPO		G06F	17/50	Yes
MS	AN	<u>1</u>	Borg, Ingwer in Statistics,	and G 1997,	iroenen, Pati entire book s	rick, <i>M</i> submit	lodern Multidimension ted.		1 5 200	_	, Springer Series
	AO	<u>1</u>	Agrafiotis, D. Kluwer Acade	K. <i>et a</i> emic P	al., "Advance Publishers, V	s in di	versity profiling and co	Technolo mbinatoria	gy Centel I series de	r 2100 sign," <i>Molec</i> u	ılar Diversity,
	АР	<u>1</u>					n Efficient Implementa Sci., American Chemic				
	AQ	<u>1</u>					ridging The Gap Betw n 29-April 2, 1998, p. 1			AR," Abstrac	ts of Papers Part
	AR	<u>1</u>					ected Diversity®: An C S National Meeting, Ma				al Chemistry,"
EXAMINER	Aan	mel	Kroda					D	ATE CONS	DERED Z	
EXAMINER: Inconformance as	nd not cor	rence sidere	considered, wh d. Include copy	ether y of th	or not citatio	n is in next co	conformance with MP ommunication to Appli	EP 609. D	Draw line th	rough citation	n if not in

MAR O 8 SOUS									Page 2 of 36
VAR .	2	· 				TY. DOCKET NO.		ICATION 10	CFIVE
	E F	ORM PT	0-1449			03.0200006 PPLICANT	09/8	02,956	UIC 1
TO THE PARTY OF	RMATIO1	1 DISCI	LOSURE STATE	EMENT	Ag	rafiotis et al.		. P	UG 1 4 2002
						LING DATE crch 12, 2001	GROU! 2123	P IECH C	ENTER 1600/2
				U.	S. PATEN	T DOCUMENTS			
AMINER FIAL		DOCU NUME		DATE	NAM	1E	CLASS	SUB- CLASS	FILING DATE
M	AA2	5,167,	,009 1	1/1992	Skei	rik	395	27 .	
	AB2	5,181,	,259 0	1/1993	Ron	rig	382	36	3 7
	AC2	5,240,	.680 C	8/1993	Zuck	ermann et al.	422	67	
	AD2	5,260,	882 1	1/1993	Blan	co et al.	364	499 c	5 6 6
	AE2	5,265,	030 1	1/1993	Skol	nick et al.	364	496	
	AF2	5,270,	,170 1	2/1993	Scha	atz et al.	435	7.37	
	AG2	5,288,	,514	2/1994	Ellm	an	427	2	20 <
/	AH2	5,307,	,287)4/1994	Crar	ner, III et al.	364	496	
<u> </u>	Al2	5,323,	.471 C	6/1994	Haya	ashi	382	15 \overline{c}	
				FOR	EIGN PAT	ENT DOCUMENTS			
MINER IAL		DOCL	JMENT NUMBE	R DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
Mo	AJ2	WO 9	1/19735	12/199	91	РСТ	C07K	7/02	Yes
	AK2	WO 9	2/00091	01/199	92	PCT	A61K	37/02	Yes No
	AL2	WO 9	3/20242	10/199	93	PCT .	C12Q	1/70	Yes No
V	AM2	WO 9	4/28504	12/199	94	PCT	G06F	15/60	Yes No
			OTHER	(Including	Author, T	itle, Date, Pertinent Pages,	etc.)		
AB	AN	2	Agrafiotis, D.K., Ltd, Vol. 1:A-D,	, "Diversity o 1998, pp. 7	of Chemica 42-761.	al Libraries," Encyclopedia of			ohn Wiley & Sons
						Tec	AUG 1 5 2 chnology Cer	nter 2100	
	AO						chnology Cer Molecular Dive	nter 2100	m. Inf. Comput.
		2	Sci., American	et al., "Para	ociety, Vol	Te (nation Theory for Assessing N	chnology Cer Molecular Dive op. 576-580.	nter 2100 rsity," <i>J. Cher</i>	·
	АР	2	Sci., American Agrafiotis, D.K. 1999, p. 50-CO	et al., "Para	ociety, Vol	Tec nation Theory for Assessing N . 37, No. 3, May/June 1997, p	chnology Cer Molecular Dive op. 576-580.	nter 2100 rsity," J. Cher	ng, March 21-25,
	AP	2	Agrafiotis, D.K. 1999, p. 50-CO Agrafiotis, D.K. Computational	et al., "Para MP. et al., "PRC Chemistry, and Jaeger	DDEN: A N	nation Theory for Assessing No. 37, No. 3, May/June 1997, p., "Abstracts of Papers Part 1:	chnology Cer Molecular Dive op. 576-580. 217th ACS Na Integrated Proje October 1990,	nter 2100 rsity," J. Cher ational Meetin	ions," Journal of
AMINER	AP AQ AR	2	Agrafiotis, D.K. 1999, p. 50-CO Agrafiotis, D.K. Computational	et al., "Para MP. et al., "PRC Chemistry, and Jaeger	DDEN: A N	nation Theory for Assessing No. 37, No. 3, May/June 1997, p. 37, No. 3, May/June 1997, p. 37, Abstracts of Papers Part 1: ew Program for Calculating In a Sons, Inc., Vol. 11, No. 9, p. 30, p. 31, No. 9, p. 32, p. 34, p. 35, p. 36, p. 37, p	chnology Cer Molecular Dive op. 576-580. 217th ACS Na Integrated Proje October 1990,	nter 2100 rsity," J. Cher ational Meetin ected Populat pp. 1101-11	ions," Journal of

ATTY. DOCKET NO. 1503.0200006 APPLICATION 09/802,956 AUG 1 4 2002 FORM PTO-1449 APPLICANT Agrafiotis et al. ION DISCLOSURE STATEMENT TECH CENTER 1600/2900 GROUP FILING DATE March 12, 2001 2123 **U.S. PATENT DOCUMENTS EXAMINER** CLASS SUB-INITIAL DOCUMENT DATE NAME FILING DATE CLASS NUMBER AA3 07/1994 364 500 B 5,331,573 Balaji et al. 496 AB3 5,434,796 Weininger 364 07/1995 5,436,850 Eisenberg et al. 364 496 AC3 07/1995 564 426 AD3 5,442,122 08/1995 Noda et al. 5,463,564 Agrafiotis et al. 364 496 AE3 10/1995 364 500 03/1996 AF3 5,499,193 Sugawara et al. AG3 5,519,635 05/1996 Miyake et al. 364 497 Yagasaki 382 226 **АНЗ** 5,524,065 06/1996 AI3 5,526,281 06/1996 Chapman et al. 364 496 **FOREIGN PATENT DOCUMENTS EXAMINER** DOCUMENT NUMBER COUNTRY **CLASS** SUB-TRANSLATION INITIAL DATE **CLASS** 01/1995 **PCT** G06F 15/42 AJ3 WO 95/01606 Yes No PCT C07H 21/02 АК3 WO 97/09342 03/1997 Yes No PCT C12Q 1/68 Yes AL3 WO 97/20952 06/1997 No АМЗ WO 97/27559 07/1997 PCT G06F 19/00 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Agrafiotis, D., "Theoretical Aspects of the Complex: Arts and New Technological Application Impacts ΑN 3 Information Processing '94, North-Holland, Vol. II, 1994, pp. 714-719. AUG 1 5 2002 Technology Center 2100
Biswas, G. et al., "Evaluation of Projection Algorithms," IEEE Transactions On Pattern Analysis And Machine AO <u>3</u> Intelligence, IEEE Computer Society, Vol. PAMI-3, No. 6, November 1981, pp. 701-708. Bonchev, D. and Trinajstić, N., "Information theory, distance matrix, and molecular branching," *The Journal of Chemical Physics*, American Institute of Physics, Vol. 67, No. 10, November 15, 1977, pp. 4517-4533. ΑP <u>3</u> Chang, C.L. and Lee, R.C.T., "A Heuristic Relaxation Method for Nonlinear Mapping in Cluster Analysis," IEEE Transactions on Systems, Man, and Cybernetics, IEEE Systems, Man, and Cybernetics Society, Vol. SMC-3, AQ <u>3</u> March 1973, pp. 197-200.

EXAMINER Samuelly solo

AR

3

pp. 1010-1023.

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Cramer, R.D. et al., "Virtual Compound Libraries: A New Approach to Decision Making in Molecular Discovery

Research," J. Chem. Inf. Comput. Sci., American Chemical Society, Vol. 38, No. 6, November/December 1998,

APPLICATION NO. 09/802,956 ATTY. DOCKET NO. 1503.0200006

('						130	33.0200	1006		109/80.	2,930		
ALENTA TRADE			PTO-1449	mrs	T/M		PLICANT rafioti	s et al.					
INF	ORMATION	N DISC	CLOSURE STA	TEMEN	<u>rr</u>	FII	LING DA	TE		GROUP 2123			
	******				U.S. P		DOCU						11,744
EXAMINER INITIAL			CUMENT MBER	DATE	E	NAMI	R	ECE	IVED	CLASS	SUB- CLASS	FILING	DATE
M	AA4	5,54	5,568	08/19	996	Ellma	ın	AUG 1 4	4 2002	436	518		
	AB4	5,549	9,974	08/19	996	Holm	es			428	403		
	AC4	5,55	3,225	09/19	996	Perry	TECH	CENTER	1600/290	995	157	7 7	
	AD4		5,325	10/19	996	Blake				435	7.1		C
	AE4	5,57	4,656	11/19	996	Agraf	iotis et a	l.		364	500	3 ~	
	AF4		5,277	12/19	996	 	et al.			436	518	1	
	AG4	+	2,755	02/19	997	Ashe	et al.			364	498 <u>Q</u>	02	m
	AH4		2,938	02/19		Akiya	ma et al.			382	155		
1	Al4		2,895	03/19	997	Balaji				364	496	,	
					FOREIGN	1 PATE	NT DOC	UMENTS				<u></u>	
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNT	RY		CLASS	SUB- CLASS	TRANS	LATION
SB	AJ4	wo	98/20437		05/1998		PCT			G06F	17/50		Yes No
1	AK4	wo	98/20459		05/1998		PCT		EIVED		11/20		Yes No
	AL4							AUG 1	5 2002				Yes No
	AM4						ן	echnolog	y Center 2	100			Yes No
			ОТНЕ	ER (Inc	cluding Autl	hor, Ti	tle, Date	, Pertinent	t Pages, etc	s.)			
MS	AN	<u>4</u>	DeMers, D. a Systems, Vol				ar Dimei	nsionality F	Reduction," /	Advances in	Neural Inforn	nation Pro	ocessing
	AO	4	Frey, P.W. ar Kluwer Acade	nd Slat emic P	te, D.J., "Lett ublishers, V	ter Red	cognition 991, pp.	Using Holl 161-182.	and-Style A	daptive Class	sifiers," <i>Macl</i>	hine Lean	ning,
	АР	<u>4</u>	Friedman, J.I Statistical Ass	Ⅎ., "Ex sociati	ploratory Projon, Vol. 82,	ojectior No. 39	n Pursuit 7, March	," <i>Journal c</i> 1987, pp.	of the Americ 249-266.	can Statistica	al Association	ı, Am rica	an
	AQ	<u>4</u>	Friedman, J.I Transactions	H. and	Tukey, J.W.	., "A Pr EE Cor	ojection nputer S	Pursuit Alg ociety, Vol.	orithm for E . C-23, No. 9	xploratory Da 9, September	ata Analysis, r 1974, pp. 8	" <i>IEEE</i> 81-889.	
	AR	4	Garrido, L. et Distributions, September 19	" Inter	national Joui	ayer Fe	edforwai Neural S	rd Neural N Systems, W	lets As A Di orld Scientif	splay Method iic Publishing	d for Multidim J Co. Pte. Ltd	nensional I., Vol. 6,	No. 3,

EXAMINER

DATE CONSIDERED 12/3/03

Yes No

Yes

No

Yes No

FORM PTO-1449

AK5

AL5

AM5

TION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1503.0200006

APPLICAL 09/802 9

APPLICANT

Agrafiotis et al.

FILING DATE March 12, 2001

GROUP 2123TECH (Charles 1600/0000

				U.S. F	OATEN	POOLIMENTO		H ECH CEW	L IT 100	
					AILN	T DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING	DATE
M	AA5	5,634,017	05/19	997	Moha	inty et al.	395	326		70
	AB5	5,635,598	06/19	997	Lebl	et al.	530	326 PO 334 7.1 O	P	m
	AC5	5,670,326	09/19	997	Beute	el .	435	7.1	UC	
	AD5	5,679,582	10/19	997	Bowi	e et al.	436	518 9	}	m
	AE5	5,684,711	11/19	997	Agra	iotis et al.	364	500 Ce 496 TH	2	
	AF5	5,703,792	12/19	997	Chap	man	364	496 ₹	20	<
	AG5	5,712,171	01/19	998	Zaml	pias et al.	436	518	02	П
	AH5	5,712,564	01/19	998	Hayo	sh	324	210 궁		D
V	AI5	5,736,412	04/19	998	Zaml	oias et al.	436	518		
				FOREIG	N PATI	ENT DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NU	IMBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANS	SLATION
	AJ5					RECEIV	ED			Ye:

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AUG 1 5 2002

Technology Center 2100

Å	B	AN	<u>5</u>	Ghose, A.K. <i>et al.</i> , "Prediction of Hydrophobic (Lipophilic) Propertie Fragmental Methods: An Analysis of ALOGP and CLOGP Methods Society, Vol. 102, No. 21, May 21, 1998, pp. 3762-3772.	
		AO	<u>5</u>	Hall, L.H. and Kier, L.B., "The Molecular Connectivity Chi Indexes a Property Modeling," Reviews in Computational Chemistry: Advance	
		АР	<u>5</u>	Hecht-Nielsen, R., "Replicator Neural Networks for Universal Optin Association for the Advancement of Science, Vol. 269, September	
		AQ	<u>5</u>	Hotelling, H., "Analysis of a Complex of Statistical Variables into Pr Educational Psychology, Warwick and York, Inc., Vol. XXIV, No. 6,	
	,	AR	<u>5</u>	Hotelling, H., "Analysis of a Complex of Statistical Variables into Pr Educational Psychology, Warwick and York, Inc., Vol. XXIV, No. 7,	
EXAMIN	NER	1		The de	DATE, CONSIDERED

OTF	E	<u>े</u>										Page 6 of 36
OUA J	1 8 5005	· ·						TY. DOCKET NO	•	APPLI 09/80		Page 6 of 36 EVEL
3	ی.		FORM P	TO-1449			AP	PLICANT		103780		G 1 4 2002
SATEME 8	PAINT	RMATIO	N DISC	CLOSURE STA	TEMEN	<u>IT</u>	FI	rafiotis et a LING DATE rch 12, 2001	1.	GROUP 2123	TECH CE	NIER 1600/290
		_				U.S. P	ATEN	DOCUMENTS				
EXAMIN INITIAL	ER			UMENT IBER	DATE	≣	NAM	E		CLASS	SUB- CLASS	FILING DATE
M	3	AA6	5,74	0,326	04/19	98	Boule	et et al.		395	27	
		AB6	5,78	9,160	08/19	98	Eator	n et al.		435	6	
		AC6	5,80	7,754	09/19	98	Zamt	oias et al.		436	518	
		AD6	5,81	1,241	09/19			fellow et al.		435	7.1	
		AE6		2,494	11/19			r et al.		707	102	
ļ <u>1</u>		AF6	5,85	8,660	01/19	999	Eator	n et al.		435	6	ļ
		AG6		1,532	01/19			n et al.		564	142	
─ ✓		AH6		6,334	02/19		Beute			435	6	
		Al6	5,90	1,069	05/19			iotis et al.		364	528.03	
						FOREIGN	PATE	NT DOCUMENT	s			
EXAMIN INITIAL	ER	ļ	DOC	CUMENT NUME	BER	DATE		COUNTRY	חרכ	CLASS	SUB- CLASS	TRANSLATION
		AJ6			RE	CEIVE	D		NEC		:D	No
		AK6			AU	1 5 200	02		_	1 2 2002		Yes No
		AL6		Те	chnol	ogy Cente	r 210)	Technolog	y Center	2100	Yes No
		AM6					:					Yes No
		·	···········	OTHE	R (In	cluding Aut	hor, T	tle, Date, Pertine	ent Pages, etc	.)		
AM	5	AN	<u>6</u>	Lee, R.C.T. e IEEE Transad 292.	t al., ". ctions	A Triangulati on Compute	ion Me <i>rs</i> , The	thod for the Seque Institute of Electi	ential Mapping rical and Elect	of Points fr	rom <i>N</i> -Space neers, March	e to Two-Space," n 1977, pp. 288-
		AO	<u>6</u>	Lipinski, C.A. discovery and pp. 3-25.	et al.,	"Experimen lopment sett	tal and ings,"	l computational ap Advanced Drug D	pproaches to e lelivery Review	stimate solu <i>is</i> , Elsevier	ubility and pe Science B.V	ermeability in drug 7., Vol. 23, 1997,
		АР	<u>6</u>					telligent Database 2, 1998, p. 19-C0		niques," <i>Abs</i>	stracts of Pa	pers Part 1: 215th
		AQ	<u>6</u>	Lobanov, V.S <i>Meeting</i> , Mar	. <i>et al</i> ch 21-	, "Rational S 25, 1999, p.	Selection 181-C	ons from Virtual Li OMP.	braries," <i>Absti</i>	acts of Pap	ers Part 1: 2	217th ACS National

<u>6</u>

AR

Mao, J. and Jain, A.K., "Artificial Neural Networks for Feature Extraction and Multivariate Data Projection," *IEEE transactions on Neural Networks*, IEEE Neural Networks, Vol. 6, No. 2, March 1995, pp. 296-317.

FORM PTO-1449

NFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1503.0200006

APPLICATION NO

APPLICANT Agrafiotis et al.

					U.S. P		T DOCUMENTS		2123_	- EGh o	=:11 EN 1600/2
XAMINER		T							T	I	1
NITIAL		1	CUMENT MBER	DATE	Ξ	NAM	ΙE		CLASS	SUB- CLASS	FILING DATE
Mo	AA7		8,960	06/19	999	Newl	lander		564	177	
1	AB7		3,819	11/19	999	Hayr	nes et al.		424	188.1	
	AC7	6,01	4,661	01/20	000	Ahlb	erg et al.		707	3	
	AD7	6,03	7,135	03/20	000	Kubo	et al.		435	7:24	
	AE7	6,04	9,797	04/20	000	Guha	a et al.		707	6	
<u> </u>	AF7	6,18	5,506 B1	02/20	001	Cran	ner et al. /	*	702	19	
	AG7	+-		<u> </u>							
	AH7	+		<u> </u>		<u> </u>				<u> </u>	
·	AI7			L	FOREICA	LDAT	ENT DOCUMENT		<u> </u>	<u></u>	<u> </u>
XAMINER	Т	Т			FUREIGN	PAII	ENT DOCUMENTS	3	1	<u> </u>	T
NITIAL		DOC	CUMENT NUMI	3ER	DATE		COUNTRY .		CLASS	SUB- CLASS	TRANSLATION
	AJ7				REC	ΕΙV	ED	RE	CEIV	ED	Yes No
	AK7				AUG	15	2002	AL	G 1 2 20	D2	No
	AL7				Technolog	ov Ce	nter 2100	Techno	ogy Cent	er 2100	Yes No
	AM7					,,					Yes
	ì	1			1						I Na
AK.	AN	7		cipal C	Components,	Minor	itle, Date, Pertine Components, and			Neural Net	works, Pergamon
MS		7	Oja, E., "Prin Press Ltd., V	cipal C ol. 5, 1	Components, 992, pp. 927	Minor 7-935.		d Linear Neur	al Networks,"	'Molecular	works, Pergamon
Ms	AN		Oja, E., "Prin Press Ltd., V Patterson, D. Descriptors,"	cipal Col. 5, 1 E. et a Journa	Components, 1992, pp. 927	Minor 7-935. rhood nal Cha	Components, and	d Linear Neur	al Networks," Validation of ciety, Vol. 39	'Molecular , No. 16, 19	works, Pergamon Diversity' 96, pp. 3049-3059
ANS	AN	7	Oja, E., "Prin Press Ltd., V Patterson, D. Descriptors," Pykett, C.E., Electronics L	cipal Cool. 5, 1 E. et a Journal "Improetters,	Components, 1992, pp. 927 al., "Neighbor al of Medicinal of Medicinal oving the Effi The Institute an, P., "A Se	Minor 7-935. rhood nal Che	Behavior: A Usefuemistry, American	d Linear Neur Il Concept for Chemical So Inlinear Mappi , Vol. 14, No.	al Networks," Validation of ciety, Vol. 39 ng by Using 9 25, December	'Molecular , No. 16, 19 Clustering A er 7, 1978, p	works, Pergamon Diversity' 96, pp. 3049-3059 archetypes," pp. 799-800.
ANS	AN AO	7	Oja, E., "Prin- Press Ltd., V. Patterson, D. Descriptors," Pykett, C.E., Electronics L. Rubner, J. ar European Ph	cipal Cool. 5, 1 E. et al. Journal "Improetters,	Components, 1992, pp. 927 al., "Neighbor al of Medicinal	Minor 7-935. rhood nal Che	Behavior: A Usefuemistry, American of Sammon's Norectrical Engineers,	d Linear Neur d Concept for Chemical So nlinear Mappi , Vol. 14, No. or Principal-C , 1989, pp. 69	al Networks," Validation of ciety, Vol. 39 ng by Using (25, December 25, December 3-698.	'Molecular, No. 16, 19	works, Pergamon Diversity' 96, pp. 3049-3059 crchetypes," pp. 799-800. ophysics Letters,



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

	rage o or so
ATTY. DOCKET NO. 1503.0200006	APPLICATION NO. 09/802,956
APPLICANT Agrafiotis et al.	

							rch 12, 2001		2123		
	· · · · ·				U.S. P	ATEN	F DOCUMENTS		·		
EXAMINER INITIAL		DOC NUM	UMENT BER	DATI	≣	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA8						-OEIV	ピリ			
	AB8	ļ					3Elini				
	AC8	<u> </u>				•	AUG 1 4 'C	MUL			
	AD8	-					HOG	, 200 15 <i>90</i> 0)		
	AE8	-				দ	ECH CENTEH	10001			
<i>*</i>	AF8	<u> </u>					ro				
	AG8 AH8										
<u> </u>	Al8	 									<u> </u>
	7.10	 			FOREIGN	I PATI	ENT DOCUMENTS				
EXAMINER INITIAL		DOC	UMENT NUME	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ8				REC	ΈΝ	ED	RE	CEIV		No
	AK8				AUG			А	UG 1 2 20	02	No
	AL8				Technolog			Techno	ogy Cent	er 2100	No
	AM8										Yes No
			OTHE	R (Inc	cluding Autl	hor, T	tle, Date, Pertiner	nt Pages, e	tc.)		
MS	AN	<u>8</u>	Thompson, L. American Cho	.A. and emical	d Ellman, J.A Society, Vo	A., "Sy I. 96, N	nthesis and Applica	ations of Sn ruary 1996,	nall Molecule L pp. 555-600.	ibraries," <i>C</i>	hemical Reviews,
	AO	<u>8</u>					I., "Computer repre <i>esign</i> , Kluwer Acad				natorial libraries,"
	AP	<u>8</u>		ctures	," Journal of	Comp	pperbound procedu uter-Aided Molecu				
	AQ	8					C., "Designing Cor can Chemical Soci				
	AR	8		urnal d			ess of Reactant Po ation Computer Sc				
EXAMINER	Jan	nels	Brida		·· = ··=· · · · ·				DATE CONSI	PERED	

Page 9 of 36 ATTY. DOCKET NO. APPLICATION NO. 09/802,956 1503.0200006 FORM PTO-1449 APPLICANT Agrafiotis et al. RMATION DISCLOSURE STATEMENT GROUP FILING DATE March 12, 2001 2123 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT** DATE NAME **CLASS** SUB-FILING DATE NUMBER CLASS AA9 AB9 AC9 AD9 AUG 1 4 2002 AE9 AF9 AG9 AH9 AI9 FOREIGN PATENT DOCUMENTS **EXAMINER DOCUMENT NUMBER** COUNTRY **CLASS TRANSLATION** INITIAL DATE SUB-AJ9 Yes RECEIVED No AUG 1 2 2002 AK9 Yes AUG 1 5 2002 No Technology Center 2100 AL9 Yes No Technology Center 2100 AM9 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Ą	B	AN	9	Gillet, Valerie J. et al., "Selecting Combinatorial Libraries to Optimize Diversity and Physical Properties," Journal of Chemical Information Computer Sciences, American Chemical Society, Vol. 39, No. 1, 1999, pp. 169-177.
		AO	9	Kearsley, Simon K. et al., "Chemical Similarity Using Physiochemical Property Descriptors," Journal of Chemical Information Computer Science, American Chemical Society, Vol. 36, No. 1, 1996, pp. 118-127.
		AP	<u>9</u>	Leland, Burton A. et al., "Managing the Combinatorial Explosion," Journal of Chemical Information Computer Science, American Chemical Society, Vol. 37, No. 1, 1997, pp. 62-70.
		AQ	9	Lewis, Richard A. et al., "Similarity Measures for Rational Set Selection and Analysis of Combinatorial Libraries: The Diverse Property-Derived (DPD) Approach," <i>Journal of Chemical Information Computer Science</i> , American Chemical Society, Vol. 37, No. 3, 1997, pp. 599-614.
		AR	9	Martin, Eric J. and Critchlow, Roger E., "Beyond Mere Diversity: Tailoring Combinatorial Libraries for Drug Discovery," <i>Journal of Combinatorial Chemistry</i> , American Chemical Society, Vol. 1, No. 1, 1999, pp. 32-45.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.

EXAMINER

Page 10 of 36 ATTY. DOCKET NO. 1503.0200006 APPLICATION NO. 09/802,956 FORM PTO-1449 APPLICANT Agrafiotis et al. ION DISCLOSURE STATEMENT FILING DATE GROUP March 12, 2001 2123 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME **CLASS** SUB-FILING DATE NUMBER CLASS AA10 AB10 AC10 AD10 AE10 AF10 AG10 AH10 AI10 **FOREIGN PATENT DOCUMENTS EXAMINER** COUNTRY **CLASS** TRANSLATION INITIAL DOCUMENT NUMBER DATE SUB-AJ10 Yes No AVG 1 2 2VU2 AK10 Yes No Technology Center 2100 AL10 Yes No AM10 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Sheridan, Robert P. et al., "Chemical Similarity Using Geometric Atom Pair Descriptors," Journal of Chemical ΑN 10 Information Computer Science, American Chemical Society, Vol. 36, No. 1, 1996, pp. 128-136. Willett, Peter et al., "Chemical Similarity Searching," Journal of Chemical Information Computer Science, AO <u>10</u> American Chemical Society, Vol. 38, No. 6, 1998, pp. 983-996. Agrafiotis, Dimitris K. and Lobanov, Victor S., "Ultrafast Algorithm for Designing Focused Combinational Arrays," ΑP 10 J. Chem. Inf. Comput. Sci., American Chemical Society, 2000, Vol. 40, No. 4, pp. 1030-1038. Ajay et al., "Can We Learn To Distinguish between 'Drug-Like' and 'Nondrug-like' Molecules?" J. Med. Chem., AQ <u>10</u> 1998, American Chemical Society, Vol. 41, No. 18, pp. 3314-3324. Brown, Robert D. and Martin, Yvonne C., "Designing Combinatorial Library Mixtures Using a Genetic Algorithm," AR <u>10</u> J. Med. Chem., American Chemical Society, 1997, Vol. 40, No. 15, pp. 2304-2313. **EXAMINER**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.

Page 11 of 36 ATTY. DOCKET NO. 1503.0200006 APPLICATION NO. 09/802,956 FORM PTO-1449 APPLICANT Agrafiotis et al. TION DISCLOSURE STATEMENT FILING DATE GROUP March 12, 2001 2123 **U.S. PATENT DOCUMENTS EXAMINER** DATE DOCUMENT NAME CLASS SUB-FILING DATE INITIAL NUMBER **CLASS** AA11 AB11 AC11 AD11 AE11 4 AF11 CENTER 1600/2900 AG11 AH11 **AI11 FOREIGN PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER** DATE COUNTRY **CLASS** SUB-**TRANSLATION** INITIAL **CLASS** AJ11 N/A RECEIVED AK11 Yes 2 2002 AUG | 1 5 2002 AUG 1 (See AP50) AL11 Yes Technology Center 2100 Technology Center 2100 (See AR50) AM11 Yes (See AN51) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Brown, Robert D. and Martin, Yvonne C., "The Information Content of 2D and 3D Structural Descriptors ΑN <u>11</u> Relevant to Ligand-Receptor Binding," J. Chem. Info. Comput. Sci., American Chemical Society, 1997, Vol. 37, No. 1, pp. 1-9. Brown, Robert D. and Martin, Yvonne C., "Use of Structure-Activity Data To Compare Structure-Based AO Clustering Methods and Descriptors for Use in Compound Selection," J. Chem. Inf. Sci., American Chemical <u>11</u> Society, 1996, Vol. 36, No. 3, pp. 572-584. Cummins, David J. et al., "Molecular Diversity in Chemical Databases: Comparison of Medicinal Chemistry AΡ <u>11</u> Knowledge Bases and Databases of Commercially Available Compounds," J. Chem. Info. Comput. Sci., American Chemical Society, 1996, Vol. 36, No. 4, pp. 750-763. Daylight Theory: Fingerprints (visited September 26, 2000) AQ <u>11</u> http://www.daylight.com/dayhtml/doc/theory/theory.finger.html, 9 pages. Daylight Theory: SMARTS (visited September 26, 2000) AR <u>11</u>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

+ 10 pages.

DATE CONSIDERED

EXAMINER

61F &	<i>₫</i>								P	age 12 of 36
(AUG 0 9 2007							TY. DOCKET NO. 03.0200006	APPLI 09/80	CAT ON NO	
	s F		PTO-1449				PLICANT rafiotis et al.		AU	G 1 4 2002
TRANSPARENT	ØRMATIOI	N DIS	CLOSURE STA	TEMEN	<u>T</u>	FI	LING DATE	GROUP		NIER 1600/290
					USP		rch 12, 2001 F DOCUMENTS] 2123	ILON OL	<u> </u>
EXAMINER		1			0.0.1	<u> </u>				
INITIAL			UMENT IBER	DATE	<u> </u>	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA12	 				<u> </u>			-	
	AB12			<u> </u>						
<u> </u>	AC12	+		<u> </u>				CEN		
	AD12	-				_		CEIV		
	AE12	+		 	-	 	A	JG 1 2 2	002	
	AF12 AG12	+		-					· · · · · · · · · · · · · · · · · · ·	
	AH12	 		 		 		logy Cent	er 2100	
	Al12	+						0, 0111	01 2 100	
	TAIL	_L		1	FOREIGN	I PATI	ENT DOCUMENTS			
EXAMINER		T								-
INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRRECEIVED	CLASS	SUB- CLASS	TRANSLATION
	AJ12						AUG 1 5 2002			
	AK12	+								
	AL12	<u> </u>					Technology Center 2	100		
	AM12	1								
			OTHE	ER (Inc	luding Aut	hor, T	tle, Date, Pertinent Pages, etc	;.)		
W	AN	<u>12</u>					I., "Techniques for Generating I American Chemical Society, 19			
	AO	12	Gillet, Valerie Academic Pu	J., "B blishe	ackground T s, 1999, pp.	heory 43-65	of Molecular Diversity," <i>Molecu</i>	lar Diversity	in Drug Desi	gn, Kluwer
	AP	<u>12</u>		ig Up t	he Design P		A., "New Methodology for Profil s with HARPick," <i>J. Med. Chem</i> .			
	AQ	<u>12</u>					, "Functional diversity of compo 000, Vol. 4, No. 3, pp. 287-294.	und libraries	," Current op	inion in chemical
	AR	<u>12</u>					eagent-Based and Product-Bas em. Inf. Comput. Sci., American			
EYAMINER		<u> </u>	110					DATE CONSI	DERED	

AUG U 9 2002

ATTY. DOCKET NO. 1503.0200006

APPLICATION NO.

34	ے کے	ORM F	PTO-1449				03.0200006 PLICANT	09780.	2,956	
TRANS	ORMATION	1 DISC	CLOSURE STA	TEMEN	<u> 1T</u>	Ag:	rafiotis et al.		·	
, —							LING DATE rch 12, 2001	GROUP 2123		
· · · · · · · · · · · · · · · · · · ·					U.S. P	ATEN	T DOCUMENTS			
EXAMINER NITIAL			CUMENT 1BER	DATI	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA13									
	AB13	<u> </u>								
	AC13	—				<u> </u>		KEUE		,
	AD13	\vdash				 		AUG 1	2 2002	
	AE13 AF13	+-						<u> </u>		
	AG13	+-						chnology	Center 21	100
	AH13	1						· · · · · · · · · · · · · · · · · · ·		
	Al13									
					FOREIGN	PATE	ENT DOCUMENTS			
EXAMINER NITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ13	 		-			RECEIVE	→		
	AK13						AUG 1 5 200	4		
	AL13						Technology Center	2100		
	AM13			-						
			ОТН	ER (Inc	cluding Aut	hor, Ti	tle, Date, Pertinent Pages, et	c.)		
AB	AN	<u>13</u>					ion of a System for Reagent Se ci., American Chemical Society			
			i .							
AB	AO	<u>13</u>					M., "The <i>in silico</i> world of virtua 8, pp. 326-336.	al libraries," D	rug discover	∕ today, Elsevie
AB 	AO	<u>13</u>	Science Ltd.	, Augus	st 2000, Vol. <i>t at.</i> , "Manag	5, No.	8, pp. 326-336. Combinatorial Explosion," 1.4			
AB ————————————————————————————————————			Loland, Burk Chemical So	on A. eciety, 1	t al., "Manag 1997, Vol. 37	ting the	8, pp. 326-336. Combinatorial Explosion," 1.4	Chem. Inf. Ce	<i>mput. Sei.</i> , ∧	merican
AB ————————————————————————————————————	AP	13	Leland, Burk Chemical So Lobanov, Vic Libraries," J. 470.	on A. eciety, 1	and Agrafioti Inf. Compu	is, Dim	8, pp. 326-336. Combinatorial Explosion," J. 6 pp. 62-70. itris K., "Stochastic Similarity S	Chem. Inf. Ge selections fror larch/April 20	mput. Soi., A. n Large Com 00, Vol. 40, N	binatorial lo. 2, pp. 460-

::ODMA\MHODMA\SKGF_DC1;34595;2

APPLICATION NO. ATTY. DOCKET NO. 1503.0200006 FORM PTO-1449 APPLICANT AUG 1 4 2002 Agrafiotis et al. TION DISCLOSURE STATEMENT GROUR TECH OEHIER 1600/2900 FILING DATE March 12, 2001 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DATE NAME CLASS SUB-FILING DATE DOCUMENT CLASS NUMBER AA14 AB14 AC14 AD14 AE14 AF14 AG14 AH14 AI14 **FOREIGN PATENT DOCUMENTS EXAMINER** DOCUMENT NUMBER COUNTRY **CLASS** SUB-TRANSLATION INITIAL DATE CLASS AJ14 No RECEIVED No AK14 AUG 1 5 2002 No AL14 Technology Center 2100 No AM14 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Matter, Hans, "Selecting Optimally Diverse Compounds from Structure Databases: A Validation Study of Two-ΆN 14 Dimensional and Three-Dimensional Molecular Descriptors," J. Med. Chem., American Chemical Society, 1997, Vol. 40, No. 8, pp. 1219-1229. i. Sadowski, Jens and Kubinyi, Hugo, "A Scoring Scheme for Discriminating between Drugs and Nondrugs," J. AO <u>14</u> Med. Chem., American Chemical Society, 1998, Vol. 41, No. 18, pp. 3325-3329. Schnur, Dora, "Design and Diversity Analysis of Large Combinatorial Libraries Using Cell-Based Methods," J. ΑP 14 Chem. Inf. Comput. Sci., American Chemical Society, 1999, Vol. 39, No. 1, pp. 36-45. Schuffenhauer, Ansgar et al., "Similarity Searching in Files of Three-Dimensional Chemical Structures: Analysis of the BIOSTER Database Using Two-Dimensional Fingerprints and Molecular Field Descriptors," J. Chem. Inf. AQ 14 Comput. Sci., American Chemical Society, 2000, Vol. 40, No. 2, pp. 295-307. Turner, David B. et al., "Rapid Quantification of Molecular Diversity for Selective Database Acquisition," J. AR <u>14</u> Chem. Inf. Sci., American Chemical Society, 1997, Vol. 37, No. 1, pp. 18-22.

EXAMINER Samuelly volu

DATE CONSIDERED

FORM PTO-1449

ATTY. DOCKET NO. 1503.0200006

APPLICATION NO. 09/802,956

APPLICANT Agrafiotis et al.

AA15					Mai	ING DATE		GROUP 2123	1	
				U.S. P	ATENI					
					WIEIAI	DOCUMENTS				
	DOCUMENT DATE NUMBER			NAMI			CLASS	SUB- CLASS	FILING DATE	
AB15					ļ		P	ECEI'		
AC15							1 11		VLU	
AD15								AUG 1 2	2002	
AE15										
AF15				 			Tech	hology Ce	nter 2100	
AG15								ļ		
AH15					<u> </u>			<u> </u>		
Al15										
				FOREIGI	V PATE	NT DOCUMEN	TS	Г	ſ	
	DOCUMEN	T NUMBE	R	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATIO
AJ15				_		-	RECEIV	ED		1
AK15							AUG 1 5 7	002		N
AL15						Tec	chnology Cer	ter 2100		N
AM15						 				١
		OTHER	(incl	udina Aut	hor. Ti	le. Date. Pertin	ent Pages, et	c-)	<u> </u>	<u> </u>
	wang 15 Predi	ction of Dr	rug Fe	asibility of	Comp	ounds," J. Comb	. Chem., Amer	ican Chemica	el Computatio	nal Approach fo
10	15 Gaste Prope	eiger, J. <i>et</i> erties," <i>Ab</i> s	t al, "A stract	assessmen s of Paper	nt of the	Diversity of Cor : 211th ACS Na	mbinatorial Librational Meeting	aries by an E	Encoding of M 8, 1996, p. 70	lolecular Surfac D-CINF.
ΛP .									nbinatorial lib	raries,"
VO .	1 <u>5</u> Bellm	an, R.E., <i>i</i>	Adapt	tive Contro	l Proce	sses: A Guided	<i>Tour</i> , Princetor	า Univ. Press	, Princeton, N	NJ (1961).
AR .			Patterr	n Recognit	ion with	Fuzzy Objective	e Function Algo	orithms, Plen	um Press, Ne	w York, NY
1	mu. UK	ude				<u></u>			DERED	
	AF15 AG15 AH15 AH15 AH15 AH15 AH15 AH16 AH16 AH16 AH16 AH16 AH16 AH16 AH16	AF15 AG15 AH15 AH15 AH15 AH15 AH15 AH15 AH15 AH	DOCUMENT NUMBER AG15 AH15 AU15 AK15 AK15 AK15 AK15 AK15 AK15 AK15 AK	DOCUMENT NUMBER AG15 AH15 AG15 AH15 AK15 AK16 AK16 AK17 AK18 AK18 AK18 AK19 A	AF15 AG15 AH15 AG15 AG15 AG15 AG15 AG15 AG15 AG15 AG	ACT 15 AC	AF15 AG15 AH15 AG15 AG15 AH15 AG15 AG15 AG15 AG15 AG15 AG15 AG15 AG	AF15 AG15 AG15 AG15 AG15 AG15 AG15 AG15 AG	AG15 AG16 AG16 AG17 AG17 AG18 AG18 AG18 AG18 AG18 AG19 AG19	Technology Center 2100 AG15 MIS FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS AK15 AUG 1 5 2002 Technology Center 2100 AK15 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Wang, Jing and Ramnarayan, Kal, "Toward Designing Drug-Like Libraries: A Novel Computation Prediction of Drug Feasibility of Compounds," J. Comb. Chem., American Chemical Society, November/December 1999, Vol. 1, No. 6, pp. 524-533. Gasteiger, J. et al, "Assessment of the Diversity of Combinatorial Libraries by an Encoding of N Properties," Abstracts of Papers Part 1: 211th ACS National Meeting, March 24-28, 1996, p. 76 Hassan, Moises et al., "Optimization and visualization of molecular diversity of combinatorial lib Molecular Diversity, ESCOM Science Publishers B.V., 1996, Vol. 2, pp. 64-74. Bellman, R.E., Adaptive Control Processes: A Guided Tour, Princeton Univ. Press, Princeton, No. 15 Bezdek, J.C., Pattern Recognition with Fuzzy Objective Function Algorithms, Plenum Press, Ne. 15 Bezdek, J.C., Pattern Recognition with Fuzzy Objective Function Algorithms, Plenum Press, Ne. 15 If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation of considered, include copy of this form with next communication to Applicant.

Page 16 of 36 ATTY. DOCKET NO. 1503.0200006 APPLICATION NO. 09/802,956 FORM PTO-1449 APPLICANT Agrafiotis et al. ION DISCLOSURE STATEMENT GROUP FILING DATE March 12, 2001 2123 **U.S. PATENT DOCUMENTS EXAMINER CLASS** FILING DATE DOCUMENT DATE NAME SUB-INITIAL **CLASS** NUMBER AA16 AB16 AC16 AD16 AE16 Tebhnology Center 2100 AF16 AG16 AH16 Al16 FOREIGN PATENT DOCUMENTS **EXAMINER** COUNTRY **CLASS** SUB-TRANSLATION INITIAL DOCUMENT NUMBER DATE CLASS RECEIVED AJ16 No AUG 1 5 2002 No AK16 No AL16 Technology Center 2100 AM16 No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Johnson, M.A., and Maggiora, G.M., Concepts and Applications of Molecular Similarity, John Wiley and Sons, ΑN 16 New York, NY (1990). AO Kohonen, T., Self-Organizing Maps, Springer-Verlag, Heidelberg, Germany (1995). 16 ΑP <u>16</u> Oja, E., Subspace Methods of Pattern Recognition, Research Studies Press, Letchworth, England (1983). Agrafiotis, D.K., "A New Method For Analyzing Protein Sequence Relationships Based On Sammon Maps," AQ <u>16</u> Protein Science, Cambridge University Press, Vol. 6, No. 2, February 1997, pp. 287-293. AR Copy of International Search Report issued October 18, 1999, for Appl. No. PCT/US99/09963, 7 pages. <u>16</u>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

EXAMINER

AUG 0 9 ZULZ

FORM PTO-1449

MION DICCLOCUDE CHAMENEN

ATTY. DOCKET NO.	APPLICATION NO.
1503.0200006	09/802,956
APPLICANT	

The	RMATION	DISCLOSURE S	TATEMEN	_{1T}	Agrafiotis et al.				
TBAIL					FILING DATE GROUP March 12, 2001 2123				
			*	U.S. PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATI	E N	AME	CLASS	SUB- CLASS	FILING DATE	
	AA17								
	AB17					 	//		
	AC17					RECEI	VED.		
	AD17 AE17					AUG 1 2	2002		
	AF17						1		
	AG17				Te	chrlology Ce	hter 2100		
	AH17								
	Al17								
	1	Γ		FOREIGN P	ATENT DOCUMENTS		 	I	
EXAMINER INITIAL		DOCUMENT NU	JMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
	AJ17				RECEIV	ΈÞ		N ₁	
	AK17	-			AUG 1 5	2002		No	
-	AL17				Technology Ce	nter 2100		N	
	AM17		· · · · · · · · · · · · · · · · · · ·					N	
	_1	ОТ	HER (In	cluding Autho	r, Title, Date, Pertinent Pages	s, etc.)		l	
MS	AN	Amzel, L.N 366-369.	/I., "Struc	ture-based dru	g design," <i>Current Opinion in B</i>	iotechnology, Vo	ol. 9, No. 4, A	ugust 1998, pp.	
	AO	Blaney, J.N diversity at 59.	M. and M nalysis,"	artin, E.J., "Coi Current Opinio	mputational approaches for cor n in Chemical Biology, Current	nbinatorial librar Biology Ltd., Vol	y design and . 1, No. 1, Jui	molecular ne 1997, pp. 54-	
	АР				etic diversity: applications of executic Patents, Vol. 8, No. 11, N				
	AQ	Caflisch, A assessmer 51-84.	v. and Ka nt," <i>Persj</i>	rplus, M., "Com pectives in Drug	putational combinatorial chemics of the property and Design, ESCC	istry for de novo M Science Publ	ligand design ishers B.V., V	: Review and ol. 3, 1995, pp.	
	AR			urrent Trends ii May 1, 1994, p	n Synthetic Peptide and Chemi p. 10 and 31.	cal Diversity Libr	ary Design,"	Genetic	

APPLICATION NO! ATTY. DOCKET NO. 09/802,956 1503.0200006 AUG 1 4 700 FORM PTO-1449 APPLICANT Agrafiotis et al. ON DISCLOSURE STATEMENT TECH UENTER 1600/\$901 GROUP FILING DATE 2123 March 12, 2001 **U.S. PATENT DOCUMENTS EXAMINER** DATE NAME **CLASS** SUB-FILING DATE INITIAL DOCUMENT NUMBER CLASS **AA18 AB18** AC18 AD18 2002 AUG 1 AE18 AF18 Tedhnology Center 2100 AG18 AH18 **AI18** FOREIGN PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER COUNTRY **CLASS** SUB-TRANSLATION INITIAL DATE **CLASS** AJ18 Yes No Yes AK18 No Yes AL18 No Technology Center 2100 AM18 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Eichler, U. et al., "Addressing the problem of molecular diversity," Drugs of the Future, Prous Science, Vol. 24, ΑN 18 No. 2, 1999, pp. 177-190. Felder, E.R. and Poppinger, D., "Combinatorial Compound Libraries for Enhanced Drug Discovery Approaches," AO <u>18</u> Advances in Drug Research, Academic Press, Vol. 30, 1997, pp. 112-199. Geysen, H.M. and Mason, T.J., "Screening Chemically Synthesized Peptide Libraries for Biologically-Relevant ΑP <u>18</u> Molecules, "Biorganic & Medicinal Chemistry Letters, Pergamon Press Ltd., Vol. 3, No. 3, 1993, pp. 397-404. Gobbi, A. et al., "New Leads By Selective Screening of Compounds From Large Databases," Abstracts of AQ <u>18</u> Papers Part 1: 213th ACS National Meeting, April 13-17, 1997, p. 67-CINF. Houghten, R.A. et al., "The Use of Synthetic Peptide Combinatorial Libraries for the Identification of Bioactive AR <u>18</u> Peptides," Peptide Research, Vol. 5, No. 6, 1992, pp. 351-358. **EXAMINER**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.

	Page 19 of 36
ATTY. DOCKET NO. 1503.0200006	APPLICATION NO. 09/802,956
APPLICANT Agrafiotis et al.	

0///		<i>#:1</i> _					10	<u> </u>	037001	27330			
AND		<i>3</i> /		PTO-1449			APPLICANT Agrafiotis et al.						
PAILER	111	KMAT TOI	N DIS	CLOSURE STAT	EMEN	<u>'T</u>	FI	LING DATE rch 12, 2001	GROUP 2123				
				<u> </u>		U.S. PA		FER 12, 2001 F DOCUMENTS	1 2123				
EXAMI				CUMENT MBER	DATE		NAM		CLASS	SUB- CLASS	FILING DATE		
		AA19	<u> </u>										
	·	AB19	ļ							13 71 - 1			
		AC19	 	·					HECE)		
		AD19 AE19	╁┈╌						AUG 1	2 2002			
		AF19	1					~					
		AG19						16	chnology	Center 2	00		
		AH19	ļ										
		Al19	<u> </u>										
EV AAAU	NED	Τ	т —	· · · · · · · · · · · · · · · · · · ·		FOREIGN	PATE	ENT DOCUMENTS	<u> </u>				
INITIAL			DOC	CUMENT NUMB	ER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION		
		AJ19						RECEIVED			Yes No		
		AK19						AUG 1 5 2002			Yes No		
		AL19						Technology Center 21	po		Yes No		
		AM19									Yes No		
		•	•	OTHE	R (Inc	luding Auth	or, T	itle, Date, Pertinent Pages, etc	c.)				
A	15	AN	<u>19</u>		Biolog	ical Activity	of Org	proach to Structure-Activity Stu anic Molecules," <i>J. Am. Chem.</i> 7315-7321.					
		AO	<u>19</u>	Lajiness, M.S. Quantitative S	et al. tructu	., "Implement ure-Activity R	ting Di	rug Screening Programs Using nships in Drug Design, Alan R. I	Molecular Si Liss, Inc., 19	milarity Metho 89, pp. 173-1	ods," <i>QSAR:</i> 76.		
		АР	<u>19</u>	Loew, G.H. et Publishing Cor	Loew, G.H. et al., "Strategies for Indirect Computer-Aided Drug Design," <i>Pharmaceutical Research</i> , Plenum Publishing Corporation, Vol. 10, No. 4, 1993, pp. 475-486.								
		AQ	<u>19</u>	Lynch, M.F. et Society, Vol. 2	<i>al.</i> , "≀ 5, No	Generic Stru 5. 3, August 1	cture 1985, _l	Storage and Retrieval," <i>J. Cher</i> op. 264-270.	n. Inf. Compu	<i>it. Sci.</i> , Amer	ican Chemical		
	1	AR	<u>19</u>	Myers, P.L. <i>et</i> 6, No. 7, July/	<i>al.</i> , "I Augus	Rapid, Reliab st 1997, pp. 4	ole Dru 16-48,	ug Discovery," <i>Today's Chemist</i> 51 & 53.	: At Work, Am	nerican Chem	nical Society, Vol.		
EXAMI	NER	Jan	ruel	Brida				[DATE CONSI	DEBED			
				. 0									

AUG 0 9 ZOUZ

FORM PTO-1449

ATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1503.0200006 09/802,956

APPLICANT Agrafiotis et al.

FILING DATE GROUP March 12, 2001 2123

-			-31201	U.S. P	ATEN	T DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DAT		NAM		CLASS	SUB- CLASS	FILING DATE
	AA20								
	AB20								
	AC20						DEC	EIVE	
	AD20						TILO		1
	AE20						AUG 1	2 2002	
	AF20			,					
	AG20						[echnolog y	Center 2	100
	AH20								
	Al20								
	_			FOREIGN	V PAT	ENT DOCUMENTS		_	_
EXAMINER INITIAL		DOCUMENT NU	MBER	DATE		COUNTRY RECEIV	CLASS ED	SUB- CLASS	TRANSLATION
	AJ20					AUG 1.5	l l		Yes No
	AK20								Yes
	AL20					Technology Ce	n tbr 2100 -		No Yes
	ALZU								No
	AM20								Yes
	1					l itle, Date, Pertinent Pages, e	1	_	No.
AB	AO	American (Chemica	I Society, Vo	ol. 25, I	nputer-Aided Model-Building S No. 20, 1986, pp. 5987-5991. ion of Endothelin-1 by H NMF sgaard International Publishe	R, CD, and Mo	lecular Model	ing," International
	AP	20 Lead Ident	ification	plication of 0 and Lead Op op. 1669-167	otimiza	c Algorithms to Combinatorial tion," <i>J. Am. Chem. Soc.</i> , Am	Synthesis: A (erican Chemic	Computationa al Society, Vo	al Approach to ol. 118, No. 5,
	AQ			Lajiness, M. June 1998, p		proaches to virtual library des -283.	sign," <i>Drug Dis</i>	scovery today	, Elsevier Science
↓ ↓	AR	20 Walters, W 4, April 199			reenin	g - an overview," <i>Drug Discov</i>	ery today, Else	evier Science	Ltd., Vol. 3, No.
EXAMINER	Ann	nell Juda					DATE CONS	DERED	

	Fage 21 OL 36
ATTY. DOCKET NO. 1503.0200006	APPLICATION NO. 09/802,956
APPLICANT Agrafiotis et al.	
· · · · · · · · · · · · · · · · · · ·	

I I AUD "	- <u>M</u>						1503.0200006 09/802,956						
STATE THROE	DEMATIO		PTO-1449 CLOSURE STA	TEMEN	J T		PLICANT rafiotis et al.						
							LING DATE ' rch 12, 2001	GROUP 2123					
					U.S. P.		T DOCUMENTS		,,				
EXAMINER INITIAL			CUMENT MBER	DATI	E	NAME			SUB- CLASS	FILING DATE			
	AA21												
	AB21								-1) /				
	AC21						-	TEUE	IVEL	<u> </u>			
	AD21					<u> </u>		<u> </u>	2 2002				
	AE21						Y	AUG I	2 2002				
	AF21						Ta	chnology	Center 2	<u></u>			
	AG21							or in lology	Octilei 2	00			
	AH21												
	Al21	į											
					FOREIGN	PAT	ENT DOCUMENTS		1	,			
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION			
-	AJ21						RECEIVE)		Ye			
	AK21						AUG 1 5 200	2		No Ye:			
	AL21						Technology Cente	2100	·	Ye:			
	AM21						1001111011039			No Yes			
]								No			
			ОТНІ	ER (In	cluding Aut	hor, T	itle, Date, Pertinent Pages, etc	:.)					
AB	AN	<u>21</u>					I chemistry: application of genet ugust 1998, pp. 379-385.	ic algorithms	s," Drug Disc	overy today,			
	AO	<u>21</u>	Weber, L. et Algorithm," A 2280-2282.	al., "O Ingewa	ptimization c andte Chemic	of the E e Inter	Biological Activity of Combinatori national Edition in English, VCH	al Compoun , Vol. 34, No	d Libraries b . 20, Novemb	y a Genetic per 3, 1995, pp.			
	АР	<u>21</u>	Structure-Ba	Graybill, T.L. <i>et al.</i> , "Enhancing the Drug Discovery Process by Integration of High-Throughput Chemistry and Structure-Based Drug Design," from Molecular Diversity and Combinatorial Chemistry: Libraries and Drug Discovery, Chaiken and Janda (eds.), American Chemical Society, 1996, pp. 16-27.									
	AQ	<u>21</u>					Using Connectionist Networks," 11, No. 3, March 1989, pp. 304-5		actions on P	attern Analysis			
	AR	<u>21</u>	"3DP gains d 1996, p. 22.	rug re:	search pater	nt", Ch	emistry in Britain, The Royal Soc	ciety of Cher	nistry, Vol. 3	2, No. 1, January			
EXAMINER		am	Mod	<u>, </u>			С	ATE, CONS	DERED				

FORM PTO-1449

ATTY. DOCKET NO. 1503.0200006

APPLICATION 09/802,956

APPLICANT Agrafiotis et al.

AUG 1 4 2002

11NF	OITAMA	N DISCLOSURE S	TATEMEN	<u>1T</u>		afiotis et al.		, 10	G 1 4 700/
TRANSPANE	<i>-</i>					ING DATE ch 12, 2001	GROUP 2123	TEOU	.::01/2
			····	U.S. P	ATENT	DOCUMENTS		TECHOL	
XAMINER NITIAL		DOCUMENT NUMBER	DAT	E	NAME		CLASS	SUB- CLASS	FILING DATE
	AA22	<u> </u>	_		 -				
	AB22				 	R		MED	
	AC22 AD22		-				AUG 1	2 2002	
	AE22		+				AUG I	4, <u>2002</u>	
	AF22		1			Tec	hnology (enter 210	0
	AG22						U2		
	AH22								
	Al22	<u></u>							_
		T		FOREIGN	N PATEN	IT DOCUMENTS			
XAMINER NITIAL		DOCUMENT NU	IMBER	DATE	(COUNTRY	CLASS	SUB- CLASS	TRANSLATIC
	AJ22								Y
	AK22					RECEIVED			Y
	AL22					AUG 1 5 2002			· · ·
	AM22					Technology Center 2	100		Y
		01	HER (In	cluding Aut	hor, Titl	e, Date, Pertinent Pages, etc	p.)		
AB	AN	22 "Accelerat	e the Dis	covery Cycle	e with Ch	nem-X!", Source and date of p	ublication ur	ıclear, 2 page	es.
	AO	22 Agrafiotis, and Comp	D. K., "S uter Scie	tochastic Alg ences, Americ	gorithms can Che	for Maximizing Molecular Div mical Society, Vol. 37, No. 5,	ersity", <i>Jouri</i> 1997, pp. 84	nal of Chemic 1-851.	al Information
	AP	22 with regres	ssion, K-ı	nearest neigl	hbour, n	rolysis mass spectra by fuzzy eural and decision-tree metho 20, 1997, pp. 389-407.			
	AQ		folate Re	ductase Inhi		ions of Neural Networks in Qu Journal of Medicinal Chemistry			
		A	etal "	Neural Netw	orke Ani		-Activity Rela	ationship Ana	lveis" lournal
	AR					olied to Quantitative Structure al Society, Vol. 33, No. 9, 199			iysis , bournar

Page 23 of 36 ATTY. DOCKET NO. 1503.0200006 APPLICATION NO. 09/802,956 FORM PTO-1449 APPLICANT Agrafiotis et al. TION DISCLOSURE STATEMENT FILING DATE GROUP March 12, 2001 2123 **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT DATE NAME CLASS FILING DATE INITIAL SUB-NUMBER **CLASS** AA23 **AB23** AC23 AD23 AE23 <u>Technology Center 2100</u> AF23 AG23 AH23 A123 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION **CLASS** RECEIVED AJ23 Yes No AUG 1 5 2002 Yes AK23 No Technology Center 2100 AL23 Yes No AM23 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Aoyama, T. and Ichikawa, H., "Obtaining the Correlation Indices between Drug Activity and Structural ΑN <u>23</u> Parameters Using a Neural Network", Chemical & Pharmaceutical Bulletin, Pharmaceutical Society of Japan, Vol. 39, No. 2, February 1991, pp. 372-378. AO <u>23</u> "ArQule Inc", from http://www.bioportfolio.com/arqule/products.htm, 5 pages, (March 18, 1998). Baum, R.M., "Combinatorial Approaches Provide Fresh Leads for Medicinal Chemistry", Chemical & ΑP <u>23</u> Engineering News, American Chemical Society, February 7, 1994, pp. 20-26. Bentley, J. L., "Multidimensional Binary Search Trees Used for Associative Searching", Communications of the AQ 23 ACM, Association for Computing Machinery, Inc., Vol. 18, No. 9, September 1975, pp. 509-517. Bottou, L. and Vladimir Vapnik, "Local Learning Algorithms", Neural Computation, Massachusetts Institute of AR <u>23</u> Technology, Vol. 4, No. 6, pp. 888-900, (November 1992).

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

EXAMINER

Page 24 of 36 ATTY. DOCKET NO. APPLICATION NO. 1503.0200006 09/802,956 FORM PTO-1449 APPLICANT Agrafiotis et al. FION DISCLOSURE STATEMENT FILING DATE GROUP March 12, 2001 2123 **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT DATE NAME **CLASS** FILING DATE INITIAL SUB-NUMBER **CLASS** AA24 AB24 AC24 AD24 AE24 Technology Center 2100 AF24 AG24 AH24 Al24 **FOREIGN PATENT DOCUMENTS EXAMINER** COUNTRY **CLASS** INITIAL DOCUMENT NUMBER DATE SUB-TRANSLATION **CLASS** RECEIVED AJ24 Yes No AK24 Yes AUG 1 5 2002 No Yes AL24 Technology Center 2100 No AM24 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Boulu, L.G. and Crippen, G.M., "Voronoi Binding Site Models: Calculation of Binding Modes and Influence of ΑN 24 Drug Binding Data Accuracy", Journal of Computational Chemistry, John Wiley & Sons, Inc., Vol. 10, No. 5, July/August 1989, pp. 673-682. Boulu, L.G. et al., "Voronoi Binding Site Model of a Polycyclic Aromatic Hydrocarbon Binding Protein", Journal of AO <u>24</u> Medicinal Chemistry, American Chemical Society, Vol. 33, No. 2, 1990, pp. 771-775. Brown, R. D. and Martin, Y.C., "Use of Structure-Activity Data To Compare Structure-Based Clustering Methods and Descriptors for Use in Compound Selection", Journal of Chemical Information and Computer Sciences, Vol. 36, No. 3, 1996, pp. 572-584. Cacoullos, T., "Estimation of a Multivariate Density", Annals of The Institute of Statistical Mathematics, The AQ <u>24</u> Institute of Statistical Mathematics, Vol. 18, No. 2, 1966, pp. 179-189. Clark, R.D., "OptiSim: An Extended Dissimilarity Selection Method for Finding Diverse Representative Subsets", Journal of Chemical Information and Computer Sciences, American Chemical Society, Vol. 37, No. 6, 1997, pp. AR 24 1181-1188. **EXAMINER EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.

AUG 0 9 2002

ATTY. DOCKET NO. APPLICATION NO. 1503.0200006 09/802,956

F	ORM PTO-1	449		1503.0200006 09/802,956 APPLICANT					
ØRMATIOI	N DISCLOSU	JRE STATEM	ENT	Agrafiotis e	t al.	Langua			
					01	2123	- Land		
			U.S. P	ATENT DOCUMEN	TS	T	Г		
	DOCUMEI NUMBER	NT DA	TE	NAME		CLASS	SUB- CLASS	FILING DATE	
AA25									
	<u> </u>				R	ECEI	VED.		
						ALIC 1 9	2002		
						AUG 1 2	<u> </u>		
AF25	1				Tech	nology Ce	nter 2100		
AG25						0,			
AH25									
Al25	<u> </u>							· · · · · · · · · · · · · · · · · ·	
	1		FOREIGN	N PATENT DOCUM	ENTS	1	1		
	DOCUME	NT NUMBER	DATE	COUNTRY		CLASS	SUB- CLASS	TRANSLATIO	
AJ25					RECE	VED		Ye N	
AK25		<u>.</u>			AUG 1 5	2002		Ye N	
AL25						·	1	Ye	
AM25					<u> </u>	7.10.		Ye	
i	J	OTHER (Including Aut	thor. Title. Date. Per	rtinent Pages, etc	c.)		N	
AN	25 Clari	k, D. E., and aputer-Aided	Westhead, D Molecular Des	.R., "Evolutionary alç ign, ESCOM Scienc	gorithms in compu e Publishers B.V.	iter-aided mo , Vol. 10, No.	elecular desig 4, August 19	n", <i>Journal of</i> 196, pp. 337-358	
AO	25 Ster	oids to Carrie	er Proteins", Jo	ournal of The Americ	eld Analyisis (CoM ean Chemical Soci	FA). 1. Effec ety, America	t of Shape or n Chemical S	Binding of ociety, Vol. 110	
АР						the Problem	of Drug Des	ign", <i>Journal of</i>	
AQ						onal Chemisti	ry, John Wiley	/ & Sons, Inc.,	
AR	<u>25</u> Tran								
	AA25 AB25 AC25 AC25 AF25 AG25 AH25 AI25 AI25 AI25 AI25 AI25 AI25 AI27 AI27 AI28 AI29 AI29 AI29 AI29 AI29 AI29 AI29 AI29	DOCUMENUMBER AA25	DOCUMENT NUMBER AA25 AB25 AC25 AD25 AE25 AF25 AG25 AH25 AI25 DOCUMENT NUMBER AJ25 AK25 AK26 AK27 AN 25 Clark, D. E., and Computer-Aided Computer-Aided Cramer, III, R. D. Steroids to Carrier, No. 18, August 3. AP 25 Cramer, III, R. D. Medicinal Chemiston Chemiston Computer. AQ 25 Crippen, G. M., "Vol. 8, No. 7, Octoor Computer."	DOCUMENT DATE	FORM PTO-1449 APPLICANT Agrafictis e FILING DATE March 12, 20 U.S. PATENT DOCUMENT NAME AA25 AB25 AB25 AB25 AB25 AF25 AF25 AF25 AG25 AH25 AB25 AF25 AF25 AG25 AH25 AB25 AF25 AG25 AH25 AB25 AF25 AG25 AF25 AG25 AF25 AG25 AF25 AF25 AG25 AF25 AF25 AG25 AF25 AF25 AF25 AF25 AF25 AF25 AF26 AF27 AF28 AF28 AF29 AF29	FORM PTO-1449 MAPPLICANT Agrafactis et al. FILING DATE MARCH 12, 2001 U.S. PATENT DOCUMENTS NAME DOCUMENT NUMBER AA25 AB25 AB25 AC28 AC28 AC28 AP25 AP26 AP27 AP28 COUNTRY AP29 AP29 AP29 CIark, D. E., and Westhead, D.R., "Evolutionary algorithms in computer Aided Molecular Design, ESCOM Science Publishers B.V. AP 25 Cramer, Ill, R. D. et al., "Comparative Molecular Field Analysis (CoM Steroids to Carrier Proteins", Journal of The American Chemical Socious 18, August 31, 1988, pp. 5959-5967. AP 25 Cramer, Ill, R. D. et al., "Substructural Analysis. A Novel Approach to Medicinal Chemistry, Vol. 17, No. 5, May 1974, pp. 533-535. AP 25 Crippen, G. M., "Voronoi Binding Site Models", Journal of Computation Vol. 8, No. 7, October/November 1987, pp. 943-955. Friedman, J. H. et al., "An Algorithm for Finding Best Matches in Logical Computation of the American Chemical Socious 1987, pp. 943-955.	PORM PTO-1449 PEMATION DISCLOSURE STATEMENT U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS DOCUMENT NUMBER AA25 AA25 AA25 AC25 AD25 AC25 AC26 AC27 AC27 AC28 AC28 AC28 AC28 AC28 AC29 AC29	FORM PTO-1449 FINAN DATE U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS DOCUMENT NUMBER AA25 AB25 AB26 AB27 AB28 AB28 AB28 AB29 AB29 AB29 AB29 AB29 Cramer, III, R. D. et al., "Comparative Molecular Field Analysis (CoMFA). 1. Effect of Shape or Steroids to Carrier Proteins", Journal of The American Chemical Society, American Chemical Society American Chemical Society American Chemical Society Am	

FORM PTO-1449

APPLICATION NO. 09/802,956 ATTY. DOCKET NO. 1503.0200006 APPLICANT Agrafiotis et al

			CLOSURE STA			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	rch 12, 2001 T DOCUMENTS	2123		
EXAMINER				<u> </u>	U.S. I	TEN	DOCUMENTS			1
NITIAL	DOCUMENT DATE NUMBER		NAM	E	CLASS	SUB- CLASS	FILING DATE			
	AA26	1		<u> </u>		 			ļ	
· · · · · · · · · · · · · · · · · · ·	AB26			-			RI	ECEI'	VFD	
	AC26	+		 						
	AD26	+		 		 		AUG 1 2	2002	
	AE26	+		 		+-	Task	-1 0	1 0400	
	AF26 AG26	+		 		+-	recn	Mology CE	hter 2100	
	AH26	+				†			·	
	A126	 		 	· · · · · · · · · · · · · · · · · · ·	+				
	AIZO			<u> </u>	FOREIG	N PAT	ENT DOCUMENTS	-I		
XAMINER				-	T			1		
NITIAL.		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ26						RECEIV	EU		Ye
	AK26	 			·		AUG 1 5	2002		Ye
	AICEO						AUG 1 0	2002	<u></u>	, N
	AL26						Technology Ce	ter 2100		Ye
	AM26									Y
							t e		B .	N
MAR.	AN	<u>26</u>	Friedman, J.I	H., "Fit	tting Function	ons To	nitle, Date, Pertinent Pages, et Noisy Data In High Dimensions		nt of Statistics	s- Stanford
MS	AN	<u>26</u>	Friedman, J.I University Te	H., "Fit echnica . et al., al Libra	tting Function Report No "Application ries", Journ	ons To		", Departmer	y. 1. Backgro	ound and Peptid
Ms			Friedman, J.I University Te Gallop, M. A. Combinatoria 1994, pp. 123 Ghose, A. K. Three-Dimen	H., "Fit echnica . et al., al Libra 33-125 and C ssional	"Application ries", Journ	ons To o. 101, ons of C nal of M A., "Use	Noisy Data In High Dimensions (August, 1988). ombinatorial Technologies to D	", Departmer Trug Discover Chemical Soc	y. 1. Backgro iety, Vol. 37, e Geometry a Using <i>Esche</i> i	ound and Peptidi No. 9, April 29, and Related richia coli
MS	AO	26	Gallop, M. A. Combinatoria 1994, pp. 123 Ghose, A. K. Three-Dimen Dihydrofolate 1985, pp. 333	H., "Fithechnical et al., "Formula et al., "	"Application ries", Journal Cantitative ctase Inhibit	ons To o. 101, ons of C onal of M M., "Use Structi itors", J	Noisy Data In High Dimensions (August, 1988). ombinatorial Technologies to Deledicinal Chemistry, American Control of Physicochemical Parameteure-Activity Relationships: A De	", Departmer Trug Discover Chemical Soc Trs in Distance monstration American Ch	y. 1. Backgro iety, Vol. 37, e Geometry a Using <i>Eschel</i> lemical Socie	ound and Peptid No. 9, April 29, and Related richia coli ety, Vol. 28, No.
AB	AO	<u>26</u>	Friedman, J.I University Te Gallop, M. A. Combinatoria 1994, pp. 123 Ghose, A. K. Three-Dimen Dihydrofolate 1985, pp. 333 Good, A. C. <i>Chemistry</i> , A	H., "Fithechnical et al., "all Libra et al., "merical et al., "merical et al., "I. et al.	"Application ries", Journal Cantitative ctase Inhibitative ctase Inhib	ons To o. 101, ons of C onal of M A., "Use Structi itors", J Activity I I Societ ons of (Strategie	Noisy Data In High Dimensions (August, 1988). ombinatorial Technologies to Dedicinal Chemistry, American Control of Physicochemical Parameteure-Activity Relationships: A Defournal of Medicinal Chemistry,	", Departmer Prug Discover Chemical Soc rs in Distance Imonstration American Ch imilarity Matr 1993, pp. 433	y. 1. Backgro iety, Vol. 37, e Geometry a Using Escher iemical Socie ices", Journa 3-438.	ound and Peptid No. 9, April 29, and Related richia coli sty, Vol. 28, No.

APPLICANT Agrafiotis et al.		
ATTY. DOCKET NO. 1503.0200006	APPLICATION NO. 09/802,956	
	Page 2/ of 3	0

Ana a	F	ORM F	TO-1449			1503.0200006 09/802,956 APPLICANT						
79/20 Tare	3 7		CLOSURE STA	TEMEN	ותי		PLICANT rafiotis et al.					
ANT & TRAFFE	, du 1, 1, 1, 0, 1	• DID	ZHOSONE SYN	*********			LING DATE cch 12, 2001	GROUP 2123				
					U.S. P/	ATENT	DOCUMENTS					
EXAMINER INITIAL			CUMENT IBER	DATE	₹	NAM	E	CLASS	SUB- CLASS	FILING DATE		
	AA27											
	AB27	<u> </u>						REC	EIVEI			
	AC27 AD27	 						 	-			
·	AE27	-					· · · · · · · · · · · · · · · · · · ·	AUG 1	2 2002	-		
	AF27	 					T	chnology	Contor 2	100		
	AG27						· · · · · · · · · · · · · · · · · · ·	3)	OBINEI Z	00		
····	AH27											
	Al27											
		1			FOREIGN	PATE	ENT DOCUMENTS	T	ı			
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION		
	AJ27						RECEIVE	D		Yes No		
	AK27						AUG 1 5 2	02		Yes No		
	AL27						Technology Cent	er 2100		Yes No		
	AM27			***************************************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Yes No		
	•		ОТНІ	ER (Inc	cluding Auti	nor, Ti	tle, Date, Pertinent Pages, et	c.)		<u> </u>		
AB	AN	<u>27</u>	Hartigan, J. A Vol. 62, No. 3				nilarity Matrices By Trees", <i>Jou</i> . 1140-1158.	rnal of the An	nerican Statis	stical Association,		
	AO	<u>27</u>	Molecular Sh	Hopfinger, A. J., "A QSAR Investigation of Dihydrofolate Reductase Inhibition by Baker Triazines Based upon Molecular Shape Analysis", <i>Journal of the American Chemical Society</i> , American Chemical Society, Vol. 102, No. 24, November 19, 1980, pp. 7196-7206.								
	АР	<u>27</u>	Jackson, R. (Biology Ltd.,	Jackson, R. C., "Update on computer-aided drug design", <i>Current Opinion in BIOTECHNOLOGY</i> , Current Biology Ltd., Vol. 6, No. 6, December 1995, pp. 646-651.								
	AQ	<u>27</u>	Kim, K. H., "C Dean, Blacki	Kim, K. H., "Comparative molecular field analysis (CoMFA)", <i>Molecular Similarity in Drug Design</i> , ed. P. M. Dean, Blackie Academic & Professional, 1995, Ch. 12, pp. 291-331.								
1	AR	<u>27</u>	Kohonen, T., Springer-Ver	"Self-(lag, Vo	Organized Fo	ormatio 1982,	on of Topologically Correct Fea pp. 59-69.	iture Maps", <i>I</i>	Biological Cyl	bernetics,		
EXAMINER	Same	nell	Brode					DATE CONS	783	-		
EVANUED. I	141 = 1 16 ··· = 6 =							Curry line of the		the section		

AUG 0	g was	*						TY. DOCKET NO. 03.0200006		APPLIC 09/802	CATION NO. 2,956			
4	, ol	F	ORM P	TO-1449				PLICANT		•				
STATE T	RAMA	RMATION	1 DISC	CLOSURE STAT	<u>remen</u>	<u>IT</u>		rafiotis et al. LING DATE		GROUP				
								rch 12, 2001		2123				
						U.S. P	ATEN	T DOCUMENTS	<u>.</u>					
EXAMINI INITIAL					≣	NAME			CLASS	SUB- CLASS	FILING DATE			
		AA28												
		AB28												
		AC28								HF(
		AD28												
		AE28	<u> </u>							AUG	1 2 2002			
		AF28	<u> </u>							Toolaasia				
		AG28	ļ					<u> </u>		rechnolo	gy Center	2100		
	 .	AH28	ļ											
		Al28												
						FOREIGN	PATI	NT DOCUMENTS		ı				
EXAMINI INITIAL	ER		DOC	UMENT NUME	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION		
		AJ28							RE	CEIVE)	Yes No		
		AK28							AUG	1 5 2007	}	Yes No		
		AL28							Technol	ogy Center	2100	Yes No		
		AM28										Yes No		
		1	l	OTHE	D (In	ludina Auth	bor T	tle, Date, Pertinent F	Pages etc	. \		140		
				OTTIE	ari (iiin	Juding Auti	101, 1	ide, Date, Pertinent P	ayes, en	··)				
A	B	AN	<u>28</u>	Koile, K. and International	Shapii Confei	ro, R., "Build rence on Sys	ing A (Collaborative Drug De ciences, IEEE, 1992,	sign Syste pp. 706-7	em", <i>Proceed</i> 16.	lings of the 2	95h Hawaii		
		AO	<u>28</u>	Chemical Dat	Kowalski, B. R. and Bender, C. F., "Pattern Recognition. II. Linear and Nonlinear Methods for Displaying Chemical Data", <i>Journal of the American Chemical Society</i> , American Chemical Society, Vol. 95, No. 3, February 7, 1973, pp. 686-693.									
		АР	<u>28</u>		Kruskal, J. B., "Nonmetric Multidimensional Scaling: A Numerical Method", <i>Psychometrika</i> , Vol. 29, No. 2, June, 1964, pp. 115-129.									
		AQ	<u>28</u>					ational methods for bio o. 3, June, 1996, pp. 4			current Opinio	on in Structural		
.	,	AR	28	Relationships	and C	Quantitative S	Structi	g Applied to the Deve re-Property Relations cal Society, Vol. 34, N	hips", Jou	ırnal of Chem	nical Informat	ion and		
EXAMIN	ER	Jam	mell/	Prode						ATE CONSI	DERED			
			-	<i>,</i>							-			

FORM PTO-1449

ION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1503.0200006	APPLICATION NO. 09/802,956
APPLICANT Agrafiotis et al.	,
FILING DATE March 12, 2001	GROUP 2123

					U.S. P	ATEN	DOCUMENTS			
EXAMINER INITIAL		DOCU NUME	CUMENT DATE		TE NAME		CLASS	SUB- CLASS	FILING DATE	
	AA29		-							
	AB29	<u> </u>						REC	EIVE	<u> </u>
	AC29	<u> </u>						1111	LIVL	ָּטַ
	AD29	ļ						AUG	1 2 2002	
	AE29	<u> </u>								
	AF29 AG29							Technolo,	gy Center	2100
	AH29	<u> </u>								
	Al29						<u> </u>			
	720	<u>'</u>			FOREIGN	I PATE	ENT DOCUMENTS			
EXAMINER INITIAL		DOC	JMENT NUME	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ29						RECEI	VED		Yes No
	AK29						AUG 1 5	2002	·	Yes No
	AL29						Technology C	enter 2100		Yes No
	AM29									Yes No
		<u> </u>	OTHE	R (Inc	cluding Auti	hor, Ti	tle, Date, Pertinent Pages, etc	c.)		
AB	AO	29	Computationa	al Che	mistry, VCH	Publis	al Chemistry Obviate Computer hers, Inc., Vol. 10, 1997, pp. 75	i-99.	oraries for Dr	ug Discovery",
	AP	29	McMartin, C. and Bohacek, R.S., "QXP: Powerful, rapid computer algorithms for structure-based drug design							
AQ 29 Mezey, P. G. and Walker, P.D., "Fuzzy molecular fragments in drug research", <i>Drug Discovery today</i> , No. 4, April 1997, pp. 132-137.									today, Vol. 2,	
	AR	<u>29</u>	Müller, K., "O Elsevier Scie	n the p	paradigm sh V., Vol. 398-	ift from -399, S	n rational to random design", <i>Jo</i> Special Issue, 1997, pp. 467-47	urnal of Mole 1.	ecular Structu	ure (Theochem),
EXAMINER	Aan	well	Broka					PATE CONS	DERED 3	
							conformance with MPEP 609. mmunication to Applicant.	Draw line thr	ough citation	if not in

Page 30 of 36 APPLICATION NO. ATTY. DOCKET NO. 1503.0200006 09/802,956 FORM PTO-1449 APPLICANT Agrafiotis et al. TION DISCLOSURE STATEMENT FILING DATE GROUP March 12, 2001 **U.S. PATENT DOCUMENTS EXAMINER** DATE **CLASS** INITIAL DOCUMENT NAME SUB-FILING DATE NUMBER **CLASS AA30 AB30** AC30 AD30 AE30 AF30 Technology Center 2100 AG30 **AH30** A130 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ30 Yes No Yes AK30 No Technology Center 2100 AL30 Yes No **AM30** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) ΑN 30 Myers, P., "The Design Of A Universal, Informer[™] Library", COMBICHEM, INC., 10 Pages, Date unknown. Oinuma, H. et al., "Neural Networks Applied to Structure-Activity Relationships", Journal of Medicinal Chemistry, AO <u>30</u> Vol. 33, No. 3, pp. 905-908, (1990). Omohundro, S. M., "Bumptrees for Efficient Function, Constraint, and Classification Learning", Advances in AP 30 Neural Information Processing Systems 3, Morgan Kaufmann, 1991, 7 pages, unknown. Parrill, A. L., "Evolutionary and genetic methods in drug design", Drug Discovery today, Elsevier Science Ltd., AQ 30 Vol. 1, No. 12, December 1996, pp. 514-521. Polanski, J., "A neural network for the simulation of biological systems", Journal of Molecular Structure AR <u>30</u>

EXAMINER

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

(Theochem), Elsevier Science Ltd., Vol. 398-399, Special Issue, 1997, pp. 565-571.

Page 31 of 36 ATTY. DOCKET NO. APPLICATION NO. 1503.0200006 09/802,956 FORM PTO-1449 APPLICANT Agrafiotis et al. RMATION DISCLOSURE STATEMENT FILING DATE GROUP March 12, 2001 2123 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME **CLASS** SUR-FILING DATE NUMBER **CLASS** AA31 AB31 AC31 AD31 AE31 AF31 Technology Center 2100 AG31 **AH31** Al31 **FOREIGN PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER** COUNTRY INITIAL DATE CLASS SUB-**TRANSLATION** CLASS AJ31 Yes RECEIVED No AK31 Yes No AL31 Yes Technology Center 2100 No AM31 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Ramos-Nino, M. E. et al., "A comparison of quantitative structure-activity relationships for the effect of benzoic and cinnamic acids on Listeria monocytogenes using multiple linear regression, artificial neural network and AN 31 fuzzy systems", Journal of Applied Microbiology, Society for Applied Bacteriology, Vol. 82, No. 2, February 1997, pp. 168-176. Rogers, D. and Hopfinger, A. J., "Application of Genetic Function Approximation to Quantitative Structure-Activity Relationships and Quantitative Structure-Property Relationships", *Journal of Chemical Information and* AO 31 Computer Sciences, American Chemical Society, Vol. 34, No. 4, July/August 1994, pp. 854-866. Sammon, Jr., J. W., "A Nonlinear Mapping for Data Structure Analysis", IEEE Transactions on Computers, ΑP 31 IEEE, Vol. C-18, No. 5, May 1969, pp. 401-409. Simon, Z. et al., "Mapping of Dihydrofolate-reductase Receptor Site by Correlation with Minimal Topological AQ (Steric) Differences", Journal of Theoretical Biology, Academic Press, Inc., Vol. 66, No. 3, June 7, 1997, pp. 31 485-495. Smellie, A. S. et al., "Fast Drug-Receptor Mapping by Site-Directed Distances: A Novel Method of Predicting New Pharmacological Leads", Journal of Chemical Information and Computer Sciences, AR <u>31</u> American Chemical Society, Vol. 31, No.3, August 1991, pp. 386-392. **EXAMINER EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

ORMATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. 1503.0200006

APPLICATION NO. 09/802,956

APPLICANT

Agrafiotis et al.

GROUP

A A A A A A A A A A A A A A A A A A A	AA32 AB32 AC32 AD32 AE32 AF32 AG32 AH32	DOCUMENT NUMBER	DAT		NAME	RE	class CEIV	SUB- CLASS	FILING DATE	
NITIAL A A A A A A A A A A A A A A A A A A	AB32 AC32 AD32 AE32 AF32 AG32 AH32		DAT	E	NAME	RE		CLASS	FILING DATE	
A A A A A A A A A A A A A A A A A A A	AB32 AC32 AD32 AE32 AF32 AG32 AH32						CEIV	ED		
A A A A A A A A	AC32 AD32 AE32 AF32 AG32 AH32						CEIV	ED	<u> </u>	
A A A A A A A	AD32 AE32 AF32 AG32 AH32						CEIV	<u>「ヒレ</u>		
A A A A A A	NE32 NF32 NG32 NH32				<u> </u>	_				
A A A A A	AF32 AG32 AH32					A	JG 1 2 2	hn2		
A A A	NG32 NH32					····				
A A	NH32		+		<u> </u>	- Techno	logy Cen	ter 2100 -		
A EXAMINER			1							
				FOREIGN	N PATE	NT DOCUMENTS				
NITIAL		DOCUMENT NUM	MBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO	
A	W32					REC	EIVED		Ye N	
Α	\K32					AUG 1	5 2002		Ye N	
А	\L32					Technology	Center 21	00	Ye N	
А	M32								Ye	
.		ОТІ	IER (In	cludina Auti	hor. Tit	tle, Date, Pertinent Pages, etc	c.)		<u> </u>	
AB AN		No. 6, Nove	ember 1	991, pp. 568-	-576. -k Predi	Neural Network", IEEE Transaction of the Solvatochromic Po	larity/Polariza	ability Param	eter π ^H ₂", <i>Journ</i> a	
		342.		u., o, , u, , o			пінсаї Зосівту, Voi. 37, IVO. 2, 1997, pp. 330-			
AF	P ;	Todorov, N. 32 ligand desig	gn", <i>Jou</i>	Dean, P. M., rnal of Comp	, "Evalu outer-Ai	uation of a method for controllir ided Molecular Design, ESCON	ng molecular 1 Science Pu	scaffold dive	rsity in de novo , Vol. 11, 1997,	
Ac	Q :			'Multidimensi ember 1952,		caling: I. Theory and Method", 1-419.	Psychometril	ka, The Psyc	hometric Societ	
J. AF	R į					ation for Learning Theory", <i>Ad</i> vers, Inc., 1992, pp. 831-838.	ances in Neu	ural Informati	on Processing	
EXAMINER	1	melKerde				[PATE CONS	DEBED		

Page 33 of 36 APPLICATION NO. ATTY. DOCKET NO. 1503.0200006 09/802,956 FORM PTO-1449 APPLICANT Agrafiotis et al. TION DISCLOSURE STATEMENT GROUP FILING DATE March 12, 2001 2123 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DATE NAME CLASS SUB-FILING DATE DOCUMENT NUMBER **CLASS** AA33 AB33 AC33 AD33 AE33 AF33 Technoldgy Center 2100 AG33 **AH33** AI33 FOREIGN PATENT DOCUMENTS **EXAMINER** COUNTRY TRANSLATION DOCUMENT NUMBER CLASS SUB-INITIAL DATE CLASS AJ33 Yes No Yes **AK33** No AL33 Yes No Technology Center 2100 **AM33** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vapnik, V. and Bottou, L., "Local Algorithms for Pattern Recognition and Dependencies Estimation", Neural AN <u>33</u> Computation, Massachusetts Institute of Technology, Vol. 5, No. 6, November 1993, pp. 893-909. Viswanadhan, V. N. et al., "Mapping the binding site of the nucleoside transporter protein: a 3D-QSAR study", AO 33 Biochimica et Biophysica Acta, Elsevier Science Publishers B.V., Vol. 1039, No. 3, 1990, pp. 356-366. Warr, W. A., "Exploiting Molecular Diversity: Small Molecule Libraries for Drug Discovery", Report of Conf rence AΡ 33 held in La Jolla, California, Jan. 23-25, 1995. Westhead, D. R. et al., "A comparison of heuristic search algorithms for molecular docking", Journal of AQ <u>33</u> Computer-Aided Molecular Design, Kluwer Academic Publishers, Vol. 11, 1997, pp. 209-228. Willett, P., "Genetic algorithms in molecular recognition and design", Trends in Biotechnology, Elsevier Science AR <u>33</u> Publishers B.V., Vol. 13, No. 12, December 1995, pp. 516-521.

EXAMINER: Initial if reference of reidered, whether or not citation is in conformance with MRER 609. Draw line through a

MATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. 1503.0200006

APPLICATION NO. 09/802756

APPLICANT

Agrafiotis et al.

			LUSURE STA				LING DATE cch 12, 2001	GR(21:	OUP AUG 23	1 4 7007		
					U.S. P.	ATENT	DOCUMENTS		TECH CELLUL 1000/290			
XAMINER NITIAL		DOC	UMENT BER	ATE NAME				SUB- CLASS	FILING DATE			
	AA34											
	AB34											
	AC34	<u> </u>		<u> </u>		ļ	R	F()EI	/ED_			
	AD34	<u> </u>				<u> </u>		0110 4 0	0000			
 	AE34			<u> </u>	-			AUG 1 2	2002			
	AF34	-		<u> </u>	-	<u> </u>	Tech	nology Ce	nter 2100			
	AG34 AH34	+		 			100//	mongy oc	1110 2100			
	Al34	+				 				 		
	17.10-7	<u>I.</u>			FOREIGN	PATE	ENT DOCUMENTS					
EXAMINER INITIAL		DOC	UMENT NUM	IBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO		
	AJ34						RE(CEIVED		. Ye		
	AK34							1 5 2002		Y		
	AL34							gy Center 2	100	Ye		
	AM34							3) 9011101 2	•••	Ye		
		<u> </u>	ОТН	ER (In	cluding Aut	hor, Ti	tle, Date, Pertinent Page	s, etc.)	t			
AB	AN	<u>34</u>	Structural Si	milarity	Measures of	of Inter-	parison of Some Measure Molecular Structural Simil ch 1986, pp. 18-25.	s for the Dete arity", <i>Quantit</i>	rmination of In ative Structure	ter-Molecular e-Activity		
	AO	<u>34</u>	Zadeh, L. A., "Communication Fuzzy Algorithms", <i>Information and Control</i> , Academic Press, Vol. 12, No. 2, February 1968, pp. 94-102.									
	AP	<u>34</u>	Zadeh, L. A.	, "Fuzz	ry Sets", <i>Info</i>	rmatioi	n and Control, Academic P	Press, Vol. 8, f	No. 3, June 19	65, pp. 338-353.		
	AQ	<u>34</u>	Copy of International Search Report issued April 21, 1998 for Appl. No. PCT/US97/20919, 6 pages.									
	AR	<u>34</u>	Copy of Inte	rnation	al Search Re	eport is	sued May 13, 1998 for Ap	pl. No. PCT/U	S97/20918, 7	pages.		
1		l										

ATTY. DOCKET NO. 1503.0200006 FORM PTO-1449

APPLICATION NO. 09/802,956

7	SPAN DEC	T DIC	or ocume can	, menaen		APPLICANT Agrafiotis et al.						
A TRANSPORT	CHIATIO	4 DI20	CLOSURE ST	AI EMEL	NI.		LING DATE rch 12, 2001	GROUP 2123				
			. 10		U.S. P		T DOCUMENTS		4.5			
EXAMINER NITIAL			CUMENT IBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE		
	AA35											
	AB35						DI					
	AC35						<u> </u>	ECEI	YED			
	AD35			<u> </u>		<u> </u>		AUG 1 2	2002			
	AE35			ļ			· · · · · · · · · · · · · · · · · · ·	HOU 1 &				
	AF35	_		ļ		1	Tech	thology Ce	nter 2100			
	AG35	 		<u> </u>				ļ				
	AH35	+		┼								
	Al35	<u> </u>		<u> </u>								
		т —			FOREIGN	VPAIL	ENT DOCUMENTS	T	T			
EXAMINER NITIAL		DOC	CUMENT NUM	IBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO		
	AJ35	ŀ					RECEIV	₽D		Ye		
	AK35						AUG 1 5 2	002		Ye		
	AL35						Technology Cen	ter 2100		Ye N		
	-				ŀ							
<u> </u>	AM35									Ye		
	AM35		ОТН	ER (In	cluding Aut	hor, Ti	itle, Date, Pertinent Pages, et	c.)				
AB.	AM35	35	Aoyama, T.	et al., "	Neural Netw	orks A			lournal of Med	N		
AB		35	Aoyama, T. American Cl	et al., "nemica	Neural Netw I Society, Vo "Analysis of ds," <i>Journal</i>	orks A bl. 33.,	tle, Date, Pertinent Pages, et	ationships," J	les by Statisti	dicinal Chemistr		
AB	AN		Aoyama, T. American Cl Gasteiger, J Recognition No. 3, 1993, Guez, A. an	et al., "nemica . et al., Methoo pp. 38	Neural Netw I Society, Vo "Analysis of ds," <i>Journal</i> 5-394.	the Re	pplied to Structure-Activity Relation 3, 1990, pp. 905-908.	ationships," Johatic Molecu	les by Statistican Chemical	cal and Pattern Society, Vol. 3		
AB	AN	<u>35</u>	Aoyama, T. American Cl Gasteiger, J Recognition No. 3, 1993, Guez, A. and integrated m	et al., "nemica . et al., Methodopp. 38 d Nevo	Neural Netw I Society, Vo "Analysis of ds," Journal 5-394. , I., "Neural r ng," Clinica C	the Reof Che	pplied to Structure-Activity Relation 3, 1990, pp. 905-908. Pactivity of Single Bonds in Alipmical Information Computer Screen Structure Screen Screen Structure Screen Screen Screen Screen Structure Screen Screen Screen Screen Structure Screen Structure Screen Structure Screen Structure Screen Structure Screen Structure Screen Screen Screen Screen Structure Screen Structure Screen Structure Screen Scre	ationships," Johatic Molecu bience, Ameri poratory comp thers B.V., Vo	les by Statistican Chemical buting with apol. 248, 1996,	cal and Pattern Society, Vol. 3		
MB	AN AO	<u>35</u>	Aoyama, T. American Cl Gasteiger, J. Recognition No. 3, 1993, Guez, A. and integrated management of the court	et al., "nemica . et al., Methodopp. 38 d Nevo	Neural Netw I Society, Vo "Analysis of ds," Journal 5-394. , I., "Neural r ng," Clinica C	the Reof Che	pplied to Structure-Activity Relation 3, 1990, pp. 905-908. Pactivity of Single Bonds in Alipmical Information Computer Science Acta, Elsevier Science Publish	ohatic Molecu chatic Molecu cience, Ameri coratory comp shers B.V., Vo	les by Statistican Chemical butting with appl. 248, 1996, mistry, Spring	cal and Pattern Society, Vol. 3		
ANS	AN AO AP	35 35 35	Aoyama, T. American Cl Gasteiger, J. Recognition No. 3, 1993, Guez, A. and integrated management of the court	et al., "nemica . et al., Methodopp. 38 d Nevo	Neural Netw I Society, Vo "Analysis of ds," Journal 5-394. , I., "Neural r ng," Clinica C	the Reof Che	pplied to Structure-Activity Relation 3, 1990, pp. 905-908. Pactivity of Single Bonds in Alipmical Information Computer Scart Acta, Elsevier Science Publish Acta, Elsevier Science Publishers B.V., Vol. 18, No. 1	ohatic Molecu chatic Molecu cience, Ameri coratory comp shers B.V., Vo	les by Statistican Chemical butting with appl. 248, 1996, mistry, Spring omparison, "Pop. 1307-1316	cal and Pattern Society, Vol. 3		

AUG 0 9 2002 FORM PTO-1449

ATTY. DOCKET NO. 1503.0200006 APPLICATION NO. 09/802,956
APPLICANT Agrafiotis et al.

A Property of the second	THE	Y KMATTOI	N DIS	CLOSURE STA	темеі	NТ	Ag	rafiotis et al	l				
ग्री कि	The state of the s	<u>unition</u>	<u>, Dio</u>	CLOSURE STA		<u> </u>		LING DATE rch 12, 2001		GROUP 2123			
						U.S. P	ATEN	DOCUMENTS					
EXAMINE INITIAL	:R		DOCUMENT DATE NUMBER		DATE		E	CLASS	SUB- CLASS	FILING DATE			
		AA36											
		AB36						 -					
		AC36							K	<u> </u>	<u>VED</u>	<u>.</u>	
		AD36	<u> </u>							NUO 4 0	0000		
		AE36	↓							AUG 1 2	2002		
		AF36	<u> </u>						Tech	nology C	enter 2100		
		AG36	 						1001	nology C	FIRE 2100	,	
		AH36	 										
		Al36					<u> </u>			_			
						FOREIGN	PATE	NT DOCUMENTS	S		I		
EXAMINE INITIAL	R.		DOC	UMENT NUM	BER	DATE		COUNTRY	REC	class EIVED	SUB- CLASS	TRANSLATION	
		AJ36							I ILO	LIVLD		Yes	
!		AK36							AUG	5 2002		No Yes	
		A1 26	┼──					1	Technolog	y Center 2	100	No	
		AL36	<u> </u>									Yes No	
		AM36										Yes No	
				ОТНЕ	R (Inc	cluding Auth	hor, Ti	tle, Date, Pertine	nt Pages, etc	:.)			
A.	3	AN	<u>36</u>		Systen	ns Through A	Artificia	ted Networks for L I Neural Networks					
		AO	<u>36</u>	Pal, N.R. and Reduction," <i>IL</i>	Pal, N.R. and Eluri, V.K., "Two Efficient Connectionist Schemes for Structure Preserving Dimensionality Reduction," <i>IEEE Transactions on Neural Networks</i> , IEEE, Vol 9, No. 6, November 1998, pp. 1142-1154.								
		АР	<u>36</u>	Domine, D. e.	Domine, D. et al., "Non-Linear Mapping for Structure-Activity and Structure-Property Modelling," <i>Journal of Chemometrics</i> , John Wiley & Sons, Ltd., Vol. 7, No. 4, July-August 1993, pp. 227-242.								
		QΑ	<u>36</u>	Network for C	Hosenpud, J. et al., "The Effect of Transplant Center Volume on Cardiac Transplant: A Report of the United Network for Organ Sharing Scientific Registry," <i>Journal of the American Medical Association</i> , American Medical Association, Vol. 271, No. 23, June 15, 1994, pp. 1844-1849.								
1		AR	<u>36</u>	English-langu Date of public	age A	bstract of Eu	ıropea n).	n Patent No. 0 355	628, printed	from Dialog	File No. 351(February, 1990 -	
EXAMINE	L	7		I IR					Te	ATE CONSI	ØERED.		

EXAMINER Januelly Man

DATE CONSIDERED